

WHAT IS CLAIMED IS:

1 1. A system, comprising:
 2 a connection to a virtual private network;
 3 a router, connected to said virtual private network, wherein said router
 4 maintains at least one virtual router for a client;
 5 at least one server, said server having at least one logical partition;
 6 a virtual LAN switch, connected to said router, said virtual LAN switch
 7 providing selectable forwarding for information from said router to said at least one
 8 logical partition of said at least one server;
 9 at least one volume;
 10 an FC switch, wherein said FC switch provides selectable interconnection
 11 between said at least one logical partition of said at least one server and said at least one
 12 volume, so that information received from a plurality of sources via said virtual private
 13 network is directed to a particular virtual router for each of said sources by said router,
 14 and wherein said information is then directed to a particular one of said at least one
 15 logical partition of said server for each of said sources by said virtual LAN switch, and
 16 wherein said information is then directed to a particular volume for each of said sources
 17 by said FC switch.

1 2. The system of claim 1, further comprising a virtual private network
 2 management system that controls operation of said router.

1 3. The system of claim 2, said virtual private network management
 2 system further comprising: a network interface module that receives commands from an
 3 integrated service management system, a service order processing module that analyzes
 4 and executes the commands, updates a table of virtual private network information, and
 5 sends new configuration information to said router through a control module.

1 4. The system of claim 2, said virtual service management system
 2 further comprising a virtual private network table, said virtual private network table
 3 having a VPN ID that identifies a specific VPN, an Address 1 and an Address 2 that hold
 4 IP addresses of two end points of said specific VPN, a Protocol that specifies a VPN
 5 protocol that is used on said specific VPN, an Internet that indicates whether access to

1 12. The system of claim 8, said integrated service management system
2 further comprising a server table, said server table having a server identification, an
3 address, a physical server identifier, a virtual LAN identification, a logical partition
4 (LPAR) identification, a host bus adaptor (HBA) identification, an application
5 identification, an operating system identifier, and a CPU information.

1 17. A method for managing a configuration for a virtual private
2 network, comprising:
3 receiving at a subsystem manager a request to change to a new
4 configuration for a virtual private network of an integrated storage and networking
5 system;
6 analyzing said request to determine a new configuration for said virtual
7 private network of said integrated storage and networking system;
8 updating configuration tables to reflect said new configuration, said
9 configuration tables comprising a mapping between a logical partition and at least one of
10 a plurality of HBAs attached thereto; and
11 sending commands to a virtual private network router to implement said
12 new configuration.

1 18. A method for managing a configuration for at least one of a
2 plurality of servers, comprising:
3 receiving at a subsystem manager a request to change to a new
4 configuration for at least one of a plurality of servers in an integrated storage and
5 networking system;
6 analyzing said request to determine a new configuration for said at least
7 one of a plurality of servers in said integrated storage and networking system;
8 updating configuration tables to reflect said new configuration, said
9 configuration tables comprising a mapping between a logical partition and at least one of
10 a plurality of HBAs attached thereto; and
11 sending commands to a virtual LAN switch to implement said new
12 configuration.

1 19. A method for managing a configuration for at least one of a
2 plurality of storage devices, comprising:
3 receiving at a subsystem manager a request to change to a new
4 configuration for at least one of a plurality of storage devices of an integrated storage and
5 networking system;
6 analyzing said request to determine a new configuration for said at least
7 one of a plurality of storage devices of said integrated storage and networking system;
8 updating configuration tables to reflect said new configuration, said
9 configuration tables comprising a mapping between a logical partition and at least one of
10 a plurality of HBAs attached thereto; and
11 sending commands to a fibre channel switch to implement said new
12 configuration.

1 20. An apparatus, comprising:
2 a connection to a virtual private network;
3 a router, connected to said virtual private network, wherein said router
4 maintains at least one virtual router for a client;
5 at least one server, said server having at least one logical partition;
6 a virtual LAN switch, connected to said router, said virtual LAN switch
7 providing selectable forwarding for information from said router to said at least one
8 logical partition of said at least one server;

0956429-093504
105360-624960

